
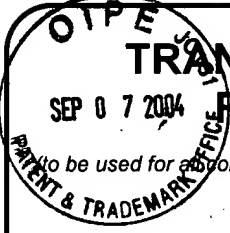
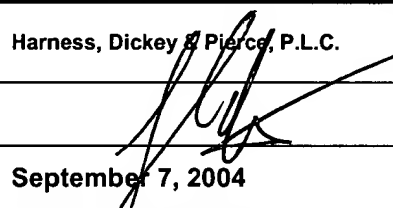


Please type a plus sign (+) inside this box → 

 To be used for all correspondence after initial filing)	Application Number	09/464,322
	Filing Date	December 15, 1999
	Inventor(s)	Heung-Kyu KWON et al.
	Group Art Unit	2815
	Examiner Name	C. Chu
Attorney Docket Number		25611-000085/US

ENCLOSURES (check all that apply)			
<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Letter to the Official Draftsperson and _____ Sheets of Formal Drawing(s)  <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> LETTER SUBMITTING APPEAL BRIEF AND APPEAL BRIEF (w/clean version of pending claims) <input type="checkbox"/> Appeal Communication to Group (Notice of Appeal, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  <b>PETITION TO WITHDRAW HOLDING OF ABANDONMENT</b>	Remarks
<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>			
Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name	John A. Castellano
Signature			
Date	September 7, 2004		

BEST AVAILABLE COPY



DAC  
PATENT IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Heung-Kyu KWON et al. CONF. NO.: 7367  
SERIAL NO.: 09/464,322 GROUP: 2815  
FILED: December 15, 1999 EXAMINER: C. Chu  
FOR: SEMICONDUCTOR CHIP PACKAGE AND METHOD OF  
FABRICATING THE SAME  
DOCKET NO.: 25611-000085/US

**PETITION UNDER 37 C.F.R. § 1.181**  
**TO WITHDRAW HOLDING OF ABANDONMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

September 7, 2004

Dear Sir:

In response to the Notice of Abandonment dated August 31, 2004 in connection with the above-identified application, Applicants hereby respectfully petition, under the provisions of 37 C.F.R. 1.181 and M.P.E.P. §711.03(c), for a decision to withdraw the holding of abandonment.

On June 25, 2003, a non-final Office Action was mailed for the above-identified application. Applicants timely filed an Amendment on September 23, 2003 (see attached date-stamped receipt). On June 23, 2004, Applicants' representative contacted Examiner Chu to inquire about the status of the September 23, 2003 filed Amendment as eight (8) months had elapsed since the mailing of the September 23, 2003 Amendment. Examiner Chu indicated that she never received the September 23, 2003 Amendment and requested a copy of the Amendment along with a date-stamped postcard receipt. Accordingly, Applicants provided Examiner Chu with a facsimile copy (see attached facsimile confirmation copy) of the September 23, 2003 filed Amendment and date-stamped receipt. Applicants further filed correspondence in the USPTO entitled "Letter" on June 24, 2004, along with a copy of the Amendment and dated-stamped receipt so that the USPTO could formally process the Amendment.

However, on August 12, 2004, Applicants received an Advisory Action from Examiner Chu mailed August 11, 2004 (see attached copy), and thus Applicants contacted Examiner Chu on August 13, 2004 to discuss how an Advisory Action may be issued without receiving a Final Rejection. During the August 13, 2004 telephonic conference, Examiner Chu stated that a Final Rejection was mailed on November 24, 2003. This was the first occurrence Applicants became aware of the Final Rejection. Accordingly, Applicants representative contacted Examiner Chu's supervisor, Supervisory Patent Examiner (SPE) Tom Thomas on August 16, 2004 to assist in this matter. SPE Thomas stated that the Advisory Action mailed August 11, 2004 was a mistake and that a Notice of Abandonment should have been mailed.

However, it is submitted that the Final Office Action mailed November 24, 2003 was never forwarded to Applicants or the undersigned. The offices of the undersigned did not become aware of the Office Action until advised by Examiner Chu during the August 13, 2004 telephonic conference.

Attached to this communication are three docket records for the law firm of Harness, Dickey & Pierce, PLC. Appendix A is a listing of all responses in our office with a due date of February 24, 2004. Had the Office Action been received, it would have been entered into the docketing records having a base date of November 24, 2003, and a due date of February 24, 2004 (three (3) month respond period). The attached docket record for February 24, 2004 fails to identify the above-identified application by our attorney docket number 25611-000085/US.

Appendix B is a computerized docket sheet for this particular application showing the docketed due dates for this application. Again, the computerized docket sheet does not indicate any entry for a Final Office Action dated November 24, 2003.

Appendix C is a photocopy of the file jacket for the application where docket entries are entered manually. Had the Office Action been received, this Office Action and the February 24, 2004 due date would have been written on the file jacket.

In view of the foregoing, it is respectfully submitted that: 1) the November 24, 2003 Office Action was not received by Harness, Dickey & Pierce, PLC; 2) a search of the docket records and file jacket indicates that the Office Action was not received; and 3) the attached docket records show where the non-received Office Action would have been entered had it been received and docketed, and demonstrates that the Office Action dated November 24, 2003 under

attorney docket number 25611-000085/US, was not received nor docketed for a response due on February 24, 2004.

Accordingly, it is respectfully requested to withdraw the holding of abandonment as the abandonment was unavoidable and due solely to problems with the mailing of the November 24, 2003 Office Action. This petition is being timely filed for the purpose of petitioning withdrawal of the abandonment in view of the above-stated facts.

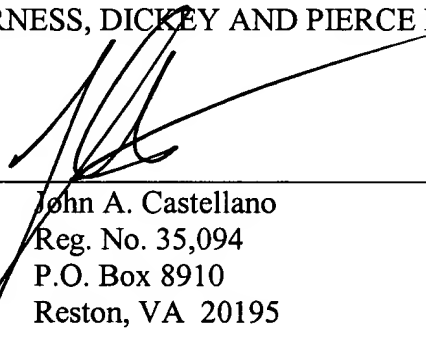
Because the above-mentioned Office Action was apparently never received in the office of Harness, Dickey & Pierce, PLC, it is believed that no petition fee is necessary in connection with this petition. In the event that the petition fee is deemed necessary by the United States Patent and Trademark Office, it is respectfully requested that the fee of \$130.00 as set forth in 35 U.S.C. § 1.17(h)(1) be charged to Deposit Account No. 08-0750.

In the event that any matters remain at issue in the application, the Examiner is invited to contact the undersigned at (703) 668-8000 in the Northern Virginia area, for the purpose of a telephonic interview.

Respectfully submitted,

HARNESS, DICKEY AND PIERCE P.L.C.

By

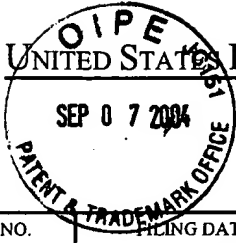


John A. Castellano  
Reg. No. 35,094  
P.O. Box 8910  
Reston, VA 20195

JAC/DJC/krf

Enclosures:

- PTO date-stamped receipt for filing September 23, 2004 Amendment
- Facsimile transmittal for papers filed June 23, 2004
- Advisory Action mailed August 11, 2004
- Appendix A – manual docket record for February 24, 2004
- Appendix B – computerized docket record for February 24, 2004
- Appendix C – photocopy of file jacket



UNITED STATES PATENT AND TRADEMARK OFFICE

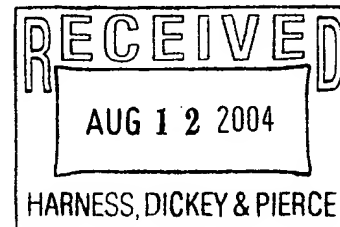
25611-00085/45 JAC/RFS

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/464,322	12/15/1999	HEUNG-KYU KWON	AB-88IUS	7367
30593	7590	08/11/2004	EXAMINER	
HARNES, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195			CHU, CHRIS C	
			ART UNIT	PAPER NUMBER
			2815	

DATE MAILED: 08/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.





## Advisory Action

Application No.

09/464,322

Applicant(s)

KWON ET AL.

Examiner

Chris C. Chu

Art Unit

2815

The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 25 June 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

### PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on \_\_\_\_\_. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
- (b) ☐ they raise the issue of new matter (see Note below);
- (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_.

3. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.
4. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☒ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☒ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: \_\_\_\_\_.

Claim(s) objected to: \_\_\_\_\_.

Claim(s) rejected: 2 - 15 and 17 - 20.

Claim(s) withdrawn from consideration: \_\_\_\_\_.

8. ☐ The drawing correction filed on \_\_\_\_\_ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_.
10. ☐ Other: \_\_\_\_\_

TOM THOMAS  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER

Continuation of 5. does NOT place the application in condition for allowance because: On page 7, applicant argues "applicants assert that Osawa et al. fail to disclose a backside of semiconductor chip that includes a solder bonding metal layer in contact with and between the semiconductor chip and a solder film as recited in claim 3." This argument is not persuasive. Osawa et al. clearly shows in Fig. 14 a solder bonding metal layer (33-2) is placed at the backside of the semiconductor chip (32-2); the solder bonding metal layer (33-2) is in direct physical contact with the solder film and thermally contacted to the semiconductor chip by an element 42; and the solder bonding metal layer (33-2) is located between the semiconductor chip and a solder film (144). As such, Ozawa anticipates all of the limitations of the claim as currently presented.

The above rationale applies to claim 19 as well.

For the above reasons, the rejection is maintained (see the final Office rejection mailed on November 24, 2003). .



\*\*\*\*\* -COMM. -RNAL- \*\*\*\*\* DATE JUN-23-2004 \*\*\*\*\* TIME 15:32 \*\*\*\*\*

MODE = MEMORY TRANSMISSION

START=JUN-23 15:28

END=JUN-23 15:32

FILE NO.=910

STN NO.	COMM.	ABBR NO.	STATION NAME/TEL NO.	PAGES	DURATION
001	OK		915712731724	018/018	00:03:56

-HDP

\*\*\*\*\*

- \*\*\*\*\*

7033903020- \*\*\*\*\*

## **HARNES, DICKEY & PIERCE, P.L.C.**

*Attorneys and Counselors*  
11730 Plaza America Drive, Suite 600,  
Reston, Virginia 20190  
P.O. Box 8910, Reston, Virginia 20195  
Phone: (703) 668-8000  
Fax: (703) 668-8200

# Fax

To:	Examiner Chris Chu	From:	John A. Castellano
Fax:	571-273-1724	Date:	June 23, 2004
Phone:		Pages:	(including cover sheet)
Your Ref.:	09/464,322	Our Ref.:	25611-000085/US
Re:		CC:	

☐ Urgent

☐ For Review

☐ Please Comment

☐ Please Reply

This transmission is intended for the sole use of the individual and entity to whom it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. You are hereby notified that any dissemination, distribution or duplication of this transmission by someone other than the intended addressee or its designated agent is strictly prohibited. If your receipt of this transmission is in error, please notify this firm immediately by collect call to (703) 668-8000, and send the original transmission to us by return mail at the address above.

COMMENTS:





Applicant:	Heung-Kyu KWON et al.	Case No.:	62230-000002/US
Serial No.:	09/464,322	Filing Date:	December 15, 1999
Title:	SEMICONDUCTOR CHIP PACKAGE AND METHOD OF FABRICATING THE SAME		

Please acknowledge receipt of: Transmittal and Rule 111 Amendment.



By stamping and returning to Harness, Dickey & Pierce, P.L.C.

USPTO Date Stamp

Due: 9/25/2003

Date Mailed: 9/23/2003

Attorney: JAC/RFS:ewd

18



## APPENDIX A

✓ <sup>Feb</sup> ~~Jan~~ 24 04

✓ 9842-000004 f 10/21	Restriction XXXX	JAC
✓ 29250-000750 Allowed	Final xy f 12/23	JPK
	NOA XX	
✓ 29250-000217 f 11/23	Amend xx	TRW
✓ 8947-000036 f 10/22	Restriction XXXX	GPB
✓ 29250-000522 f 11/23	Amend x	JPK
✓ 29250-001091 f 2/24	TFD 1	GDY 1
✓ 29250-001092 f 2/18		
✓ 8564-000013 f 12/19	Restriction XX	GDY
✓ 45900-000391 let	Appeal Briefs	JAC
✓ 29250-001077 f 11/16	NTFMP x	MJC
✓ 29250-000924 f 2/24	NTFMP x	JAC
✓ 29250-000937 f 12/23	NTFMP v	MJC
✓ 37310-000234 f 11/28	Amend	JEC
✓ 32860-000342 f 2/11	Amend	DJD
✓ 32860-000392 f 1/20	Amend	DJD
✓ 90500-000011 let	Amend	DJD

✓  
Feb. 24

✓ 1224-000003 nold	IOS	JAC
✓ 1740-000084 b 2/23	TBPA	GDY
✓ 37120-200127 ext 3/1	TCD	
✓ 37120-200122	1	
✓ 87900-000518 b 2/19	TBPA	JAC
<del>2657-000223</del> ✓ 2557-000223 <del>Sept 11-20</del>	Rev to client <del>FF</del> Rev. to client	JAC/TSA
✓ 1740-000085 b 2/23	TSD	GDY
<del>19200-000031</del>	<del>TCD</del>	<del>JAC</del>
✓ 2557-000007 Sending	Rev. to client	GPB
✓ 17474-000064 noted - DOW Handling	FF Deadline	GPB
<del>37960D-000511</del>	<del>TDS (client send ref/s)</del>	<del>D.S.D</del>



## APPENDIX B

PCMaster v3.04.04 - [Patent]

File Edit Records Utilities Tools Help

Docket Number: 25611-000085

Country: United States

Case Type: Regular

Relation Type: Original Filing

Filing Type: National

Sequence Number: 25611-000085/US

Billing Attorney: Castellano, John A.

Agent: Yoon & Lee

Client: Samsung Electronics Co., Ltd.

Cur Own/Assignee: HDP-ID

Prev Own/Assignee: 25611-000085/US

Semiconductor Chip Package And Method Of Fabricating The Same

Related Id	Title	Notes	Profile Tracking	Annuit	Client Notes	Private Notes	Inventors
Filing Date	Attys & More	More	Actions	Disclosure	Annuities Amt	Ext Files	
Action	Action Due Date	Base Date	Completed Date	Action Notes			
3 Mo Final OA + 3 (NEP)	5/19/2003		2/19/2003				
3 Mo OA (1st) Mail Date	6/25/2003		9/23/2003				
3 Mo OA (1st) Due	9/25/2003		9/23/2003	filed			
3 Mo OA (1st) + 1	10/25/2003		9/23/2003				
3 Mo OA (1st) + 2	11/25/2003		9/23/2003				
3 Mo OA (1st) + 3 (NEP)	12/25/2003		9/23/2003				
Advisory Action	8/11/2004		8/12/2004	Mail date			
No Foreign Filing			8/31/2004	Mail Date			
Notice of Abandonment							
*							

Created: 12/18/2002 Updated: 9/1/2004 11:52 AM By: DPG

**5611-000085/US**

SEP 07 2004

NO.: 09/464, 322

FILED: Dec 15, 1999

MENT RECORDED: November 15, 99 Reel: 00481 Frame: 0941

OF INCORPORATION: Korea Client Ref. No: 98550276

OLD REF: 62230-000002 | 1

**Serial No.:**

**Docket No.:**

**Serial No.:**

**Docket No.:**

Serial No.:

**Docket No.:**

IN FILED IN:

T ACCOMPANIES FILE: ☒ Yes

2501

00010

70212

## PATENT FILE

**AB-881 US**

**SAMSUNG ELECTRONICS CO., LTD.**

ONED: \_\_\_\_\_

OF ALLOWANCE DATE: \_\_\_\_\_ ISSUE FEE PAID: \_\_\_\_\_

NO: \_\_\_\_\_ ISSUE DATE: \_\_\_\_\_

Box #3

724 KRYSTIAN, NY, NY

'K'

US/5000000



[REDACTED]

10

CA

... ..

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☒ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**